71626 WOO4

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCI					
To: OWEN, Polly C. Attn. OWEN, Polly C. P.O. Box 511 Kingsport TN 37662-5075	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SHARCHING AUTHORITY, OR THE DECLARATION					
JAN 1 9 2010						
EASTMAN CHEMICAL CO	MPANY (PCT Rule 44.1)					
LEGAL DEPARTME	Date of mailing (day/month/year) 08/01/2010					
Applicant's or agent's file reference	FOR FURTHER ACTION See paragraphs 1 and 4 below					
JAE-097020 ✓						
International application No. PCT/US2009/005144 /	International filing date (day/month/year) 15/09/2009					
Applicant						
EASTMAN CHEMICAL COMPANY 🗸						
The applicant is hereby patified that the international search	report and the written opinion of the International Searching					
Authority have been established and are transmitted herewi						
Filing of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	s of the International Application (see Rule 46):					
When? The time limit for filing such amendments is non International Search Report.	· · · · · · · · · · · · · · · · · · ·					
Where? Directly to the International Bureau of WIPO, 34 chemin des Colombettes 1211 Geneva 20, Switzerland, Fascimile No.: (41–22) 338.82.70						
For more detailed instructions, see the notes on the ac	companying sheet.					
2. The applicant is hereby notified that no international search Article 17(2)(a) to that effect and the written opinion of the Ir						
3. With regard to any protest against payment of (an) addition	onal fee(s) under Rule 40.2, the applicant is notified that:					
the protest together with the decision thereon has been applicant's request to forward the texts of both the protest.	n transmitted to the International Bureau together with the test and the decision thereon to the designated Offices.					
no decision has been made yet on the protest; the app	licant will be notified as soon as a decision is made.					
4. Reminders	•					
Shortly after the expiration of 18 months from the priority date, the International Bureau. If the applicant wishes to avoid or postpone application, or of the priority claim, must reach the International Bureau the completion of the technical preparations for internation	publication, a notice of withdrawal of the international ureau as provided in Rules 90 <i>bis</i> .1 and 90 <i>bis</i> .3, respectively,					
The applicant may submit comments on an informal basis on the International Bureau. The International Bureau will send a copy of international preliminary examination report has been or is to be ethe public but not before the expiration of 30 months from the prio	such comments to all designated Offices unless an stablished. These comments would also be made available to					
Within 19 months from the priority date, but only in respect of sor examination must be filed if the applicant wishes to postpone the date (in some Offices even later); otherwise, the applicant must, we have the control of the cont	entry into the national phase until 30 months from the priority					

Name and mailing address of the International Searching Authority



months.

European Patent Office, P.B. 5818 Patentlaan 2 NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

acts for entry into the national phase before those designated Offices.

Authorized officer

In respect of other designated Offices, the time limit of 30 months (or later) will apply even if no demand is filed within 19

See the Annex to Form PCT/IB/301 and, for details about the applicable time limits, Office by Office, see the PCT Applicant's

Laurent Tissot

Guide, National Chapters.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annex B).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, International Phase, paragraph 296).

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet or sheets containing a complete set of claims in replacement of all the claims previously filed must be submitted.

Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively in Arabic numerals (Section 205(a)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*.

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INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Annex B).

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How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet or sheets containing a complete set of claims in replacement of all the claims previously filed must be submitted.

Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively in Arabic numerals (Section 205(a)).

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PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER		see Form PCT/ISA/220					
JAE-097020	-097020 ACTION as well as, where applicable, item 5 below.							
International application No.	International filing date (day/mont	month/year) (Earliest) Priority Date (day/month/year)						
PCT/US2009/005144	15/09/2009		15/09/2008					
Applicant		" 						
EASTMAN CHEMICAL COMPANY								
This international search report has been according to Article 18. A copy is being tra	prepared by this International Searc Insmitted to the International Bureau	hing Autho ı.	ority and is transmitted to the applicant					
This international search report consists o	factoral of 3 show	ate.						
<u> </u>	a copy of each prior art document o		report "					
it is also assemparied by	a copy of caon phot are document o		Toport.					
Basis of the report								
a. With regard to the language, the i			sis of:					
	pplication in the language in which i							
a translation of the of a translation fur	nished for the purposes of internation	nal search	, which is the language n (Rules 12.3(a) and 23.1(b))					
b. This international search r		ito account	the rectification of an obvious mistake					
	,	. ,,	in the international application, see Box No. I.					
or	·	410010004	in the international application, see Box 110. I.					
2. Certain claims were four	d unsearchable (See Box No. II)		· · · · · · · · · · · · · · · · · · ·					
3. Unity of invention is lack	ing (asa Day No III)	**						
3. Unity of invention is lack	ing (see box no iii)							
4. With regard to the title,								
X the text is approved as sub	mitted by the applicant							
the text has been establish	ed by this Authority to read as follo	ws:	-					
	•							
	•							
مستونی در از	ria u		·					
			and the second s					
5. With regard to the abstract,								
X the text is approved as sub	mitted by the applicant		<u>, , , , , , , , , , , , , , , , , , , </u>					
=		is Authority	y as it appears in Box No. IV. The applicant					
may, within one month fror	n the date of mailing of this internati	onal searc	h report, submit comments to this Authority					
6 With regard to the drawings	•							
 With regard to the drawings, a. the figure of the drawings to be put 	bliched with the abstract is Figure N	lo 1						
	•	10						
	 as suggested by the applicant as selected by this Authority, because the applicant failed to suggest a figure 							
<u> </u>	Authority, because this figure bette	0.0	,					
	published with the abstract							
			-					

Form PCT/ISA/210 (first sheet) (April 2007)

INTERNATIONAL SEARCH REPORT

International application No PCT/US2009/005144

. 21 400						
A. CLASS INV.	ification of subject matter C09D101/14 C08B3/16 C08B3/1	8	-			
According t	o International Patent Classification (IPC) or to both national classific	cation and IPC	~			
	SEARCHED					
	ocumentation searched (classification system followed by classificat	tion symbols)				
	C08B C08L					
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in the fields sea	arched			
Electronic o	ata base consulted during the international search (name of data ba	ase and. where practical, search terms used)				
	ternal, WPI Data					
LIO 111	ternar, wit bata					
			•			
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT					
Category*	Citation of document, with indication, where appropriate, of the rel	levant passages	Relevant to claim No.			
χ	US 2004/181009 A1 (SHELTON MICHAE	EL CHARLES	1-15			
	[US] ET AL SHELTON MICHAEL CHARLE	ES [US] ET				
	AL) 16 September 2004 (2004-09-16	5)				
	cited in the application					
	the whole document		-			
χ	WO 2004/083253 A (EASTMAN CHEM CO) FUST)	1-15			
^	30 September 2004 (2004-09-30)	, [63],				
,	the whole document					
^			en e			
X	WO 2006/116367 A (EASTMAN CHEM CO 2 November 2006 (2006-11-02)) [ns])	1-15			
ĺ	the whole document		*			
-	the whole document	-	-			
X .	WO 2007/145929 -A (EASTMAN CHEM CO) [US])	1-15			
***	21 December 2007 (2007-12-21)					
	the whole document		•			
						
		•	•			
Furth	er documents are listed in the continuation of Box C.	See patent family annex.	-			
* Special ca	stegories of cited documents :					
"A" docume	nt defining the general state of the art which is not	"T" later document published after the intern- or priority date and not in conflict with th	e application but			
conside	ered to be of particular relevance	cited to understand the principle or theo invention				
"E" earlier document but published on or after the international filing date "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to						
"L" document which may throw doubts on priority claim(s) or involve an inventive step when the document is taken alone which is cited to establish the publication date of another						
cannot be considered to involve an inventive step when the						
other means ments, such combination being obvious to a person skilled						
"P" document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family						
Date of the actual completion of the international search Date of mailing of the international search report						
29 December 2009 08/01/2010						
	ailing address of the ISA/	· ·				
Name and m	European Patent Office, P.B. 5818 Patentiaan 2	Authorized officer				
	NL – 2280 HV Rijswijk Tel. (+31–70) 340–2040,					
	Fax: (+31–70) 340–3016	olde Scheper, Berno	ן			

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/US2009/005144

Patent document cited in search report	Publication date	Patent family member(s)	Publication date		
US 2004181009 A1	16-09-2004	US 2009286095 A1	19-11-2009		
W0 2004083253 A	30-09-2004	AT 378357 T CN 1761685 A CN 1820028 A DE 602004010077 T2 EP 1603953 A1 EP 1603952 A1 ES 2297399 T3 JP 2006520420 T JP 2006523752 T WO 2004083254 A1	15-11-2007 19-04-2006 16-08-2006 13-03-2008 14-12-2005 14-12-2005 01-05-2008 07-09-2006 -19-10-2006 30-09-2004		
WO 2006116367 A	02-11-2006	EP 1874826 A1 JP 2008539310 T	09-01-2008 13-11-2008		
WO 2007145929 A	21-12-2007	WO 2007145955 A2	21-12-2007		

PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE see form PCT/ISA/220 INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43*bis*.1) Date of mailing (day/month/year) see form PCT/ISA/210 (second sheet) Applicant's or agent's file reference FOR FURTHER ACTION see form PCT/ISA/220 See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) 15.09.2009 15.09.2008 PCT/US2009/005144 International Patent Classification (IPC) or both national classification and IPC INV. C09D101/14 C08B3/16 C08B3/18 Applicant EASTMAN CHEMICAL COMPANY This opinion contains indications relating to the following items: Box No. Ⅰ Basis of the opinion ☐ Box No. II Priority ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability ☐ Box No. IV— Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement ☐ Box No. VI Certain documents cited ☐ Box No. VII Certain defects in the international application ☐ Box No. VIII –Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notifed the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA: Authorized Officer Date of completion of this opinion European Patent Office

see form

PCT/ISA/210

olde Scheper, Bernd

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D-80298 Munich

Tel. +49 89 2399 - 0 Fax: +49 89 2399 - 4465

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2009/005144

	Вох	No. I	Basis of the o	pinion						
1.	. With regard to the language, this opinion has been established on the basis of:									
	☐ the international application in the language in which it was filed									
	a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).								ed for the	
2.	This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))									
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:									
	a. typ	oe of r	naterial:							
		as	equence listing							
	🗆	tab	le(s) related to th	e sequence list	ting					
	b. for	mat o	f material:		-		• .			·
	_ 🗆	on	paper							
		in e	electronic form		e e e e e e e e e e e e e e e e e e e					
~	c. tim	e of fi	ling/furnishing:	•		•			-	
	:	cor	itained in the inte	rnational applic	ation as filed	l.	-			
		file	d together with th	e international	application in	electronic fo	<u>r</u> m.			
	. 🗆	furr	nished subseque	ntly to this Auth	ority for the p	ourposes of se	earch.			
4.	h Č	nas be copies	tion, in the case en filed or furnish is identical to tha oriate, were furnis	ned, the require at in the applica	d statements	s that the info	rmation in th	e subse	quent or ac	dditional
5.	Additi	ional d	comments:			-				

Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

No: Claims

<u>1-15</u>

Inventive step (IS)

Yes: Claims

No: Claims

<u>1-15</u>

Industrial applicability (IA)

Yes: Claims

Claims

No:

<u>1-15</u>

2. Citations and explanations

see separate sheet

Re Item V.

- 1 Reference is made to the following documents:
 - D1: US 2004/181009 A1 (SHELTON MICHAEL CHARLES [US] ET AL SHELTON MICHAEL CHARLES [US] ET AL) 16 September 2004 (2004-09-16) cited in the application
 - D2: WO 2004/083253 A (EASTMAN CHEM CO [US]) 30 September 2004 (2004-09-30)
 - D3: WO 2006/116367 A (EASTMAN CHEM CO [US]) 2 November 2006 (2006-11-02)
 - D4: WO 2007/145929 A (EASTMAN CHEM CO [US]) 21 December 2007 (2007-12-21)
- Basecoat compositions as presently claimed are well known from the prepublished applications of the same applicant. The present applications lacks novelty as a consequence (Art. 33(2) PCT).
- Even if novelty would be established by suitable amendment, the question of inventive step in accordance with Art. 33(3) PCT needs to be answered. The present application does contain any information revealing a surprising, unexpected technical effect originating from any distinguishable feature. It appears that the present application constitutes a mere re-filing of a claimed invention which is however published before the claimed priority date.
- The present application satisfies the criterion set forth in Article 33(4) PCT because the subject matter of claims 1-15 is industrially applicable.

Possible steps after receipt of the international search report (ISR) and written opinion of the International Searching Authority (WO-ISA)

General information

For all international applications filed on or after 01/01/2004 the competent ISA will establish an ISR. It is accompanied by the WO-ISA. Unlike the former written opinion of the IPEA (Rule 66.2 PCT), the WO-ISA is not meant to be responded to, but to be taken into consideration for further procedural steps. This document explains about the possibilities.

under Art. 19 PCT

Amending claims Within 2 months after the date of mailing of the ISR and the WO-ISA the applicant may file amended claims under Art. 19 PCT directly with the International Bureau of WIPO. The PCT reform of 2004 did not change this procedure. For further information please see Rule 46 PCT as well as form PCT/ISA/220 and the corresponding Notes to form PCT/ISA/220.

Filing a demand for international preliminary examination

In principle, the WO-ISA will be considered as the written opinion of the IPEA. This should, in many cases, make it unnecessary to file a demand for international preliminary examination. If the applicant nevertheless wishes to file a demand this must be done before expiry of 3 months after the date of mailing of the ISR/WO-ISA or 22 months after priority date, whichever expires later (Rule 54bis PCT). Amendments under Art. 34 PCT can be filed with the IPEA as before, normally at the same time as filing the demand (Rule 66.1 (b) PCT).

If a demand for international preliminary examination is filed and no comments/amendments have been received the WO-ISA will be transformed by the IPEA into an IPRP (International Preliminary Report on Patentability) which would merely reflect the content of the WO-ISA. The demand can still be withdrawn (Art. 37 PCT).

Filing informal comments

After receipt of the ISR/WO-ISA the applicant may file informal comments on the WO-ISA directly with the International Bureau of WIPO. These will be communicated to the designated Offices together with the IPRP (International Preliminary Report on Patentability) at 30 months from the priority date. Please also refer to the next box.

End of the international phase

At the end of the international phase the International Bureau of WIPO will transform the WO-ISA or, if a demand was filed, the written opinion of the IPEA into the IPRP, which will then be transmitted together with possible informal comments to the designated Offices. The IPRP replaces the former IPER (international preliminary examination report).

Relevant PCT Rules and more information

Rule 43 PCT, Rule 43bis PCT, Rule 44 PCT, Rule 44bis PCT, PCT Newsletter 12/2003, OJ 11/2003, OJ 12/2003